

Amendments To The Claims

Claim 1 (Currently amended): A cathode plate of field emission display comprising:

a cathode substrate of the field emission display having a thickness; and

one or more in-laid linear isolation barriers formed within the thickness of a top surface of the cathode substrate;

one or more electron emitter lines for emitting electrons to a display screen formed within each of the one or more in-laid linear isolation barriers, wherein
~~the one or more in-laid linear isolation barriers are adapted to contain electron emitter lines,~~

wherein the one or more in-laid linear isolation barriers provide field isolation between respective ones of the electron emitter lines.

Claim 2 (Cancelled)

Claim 3 (Currently amended): The cathode plate of Claim 1 [[2]] wherein portions of the top surface in between the one or more in-laid isolation barriers are adapted to contact gate wires of a gate frame positioned over the cathode substrate in order to dampen vibrations in the gate wires due to the driving frequency.

Claim 4 (Currently amended): The cathode plate of Claim 1 [[2]] further comprising a trace coupled at one end to the top surface of the cathode substrate and coupled at an opposite end to a portion of a respective one of the one or more emitter lines.

Claim 5 (Original): The cathode plate of Claim 4 wherein the trace is bent

so that the one end of the trace is flush with the top surface of the cathode plate and the opposite end is flush with the respective one of the one or more emitter lines.

Claim 6 (Original): The cathode plate of Claim 1 wherein the one or more in-laid linear isolation barriers comprise one or more trenches.

Claim 7 (Original): The cathode plate of Claim 1 wherein regions of the top surface of the cathode plate in between the one or more in-laid linear isolation barriers are adapted to contact gate wires of a gate frame of the field emission display and dampen vibrations in the gate wires from the driving frequency.

Claim 8 (Original): The cathode plate of Claim 1 wherein the one or more in-laid linear isolation barriers extend a full length of the cathode substrate.

Claim 9 (Currently amended): An isolation/barrier device of a field emission display comprising:

linear in-laid means for isolating linear electron fields emitted from adjacent emitter lines of a cathode substrate to a display screen of the field emission display.

Claim 10 (Original): The device of Claim 9 wherein the in-laid means include means for contacting gate wires of a gate frame of the field emission display, wherein the means for contacting dampen vibrations in the gate wires from the driving frequency.

Claim 11 (Previously presented): The cathode plate of claim 1 wherein portions of the top surface of in between the one or more in-laid linear isolation barriers

are adapted to contact a gate structure extending over the one or more in-laid linear isolation barriers.

Claim 12 (Currently amended): The cathode plate of Claim 1 [[2]] wherein each electron emitter line comprises a separate and discrete continuous line extending across the cathode substrate.

Claim 13 (Previously presented): The device of claim 9 wherein the linear in-laid means also comprise means for supporting a gate structure extending over the linear in-laid means.

Claim 14 (Currently amended): The cathode plate [[device]] of claim 1 further comprising a gate structure extending over the one or more in-laid isolation barriers.

Claim 15 (Currently amended): The cathode plate [[device]] of claim 1 [[2]] wherein each electron emitter line comprises a plurality of emitter portions deposited on a surface within an in-laid isolation barrier, wherein there is no separating structure positioned in between adjacent emitter portions on the surface within the in-laid isolation barrier.

Claim 16 (Cancelled)

Claim 17 (Currently amended): The cathode plate [[device]] of claim 1 further comprising a gate structure adapted to cause an electron emission from an emitter line to the [[a]] display screen.

Claim 18 (Previously presented): The device of claim 9 wherein the linear in-laid means for isolating linear electron fields comprise separate linear in-laid means deposited on a surface, wherein there is no separating structure positioned in between adjacent emitter portions on the surface.

Claim 19 (Cancelled)

Claim 20 (Currently amended): The device of claim 9 further comprising:
means for causing an electron emission from an electron emitter line to the
[[a]] display screen of the field emission display.

Claim 21 (New): The cathode plate of claim 1 further comprising:
the display screen; and
a plurality of phosphor lines coupled thereto, the electron emitter lines
emitting electrons to the plurality of phosphor lines.

Claim 22 (New): The device of claim 9 further comprising:
the display screen; and
linear illuminating means for illuminating upon receiving the linear
electron fields emitted from the emitter lines.

Amendments To The Drawings

The attached drawing sheet 3/13 including FIG. 5 has been amended to also illustrate new FIG. 19 (which illustrates an alternative embodiment of FIG. 5) in order to show every feature of the invention specified in the claims. No new matter has been entered. Drawing sheet 3/13 including FIGS. 5 and 19 replaces the original drawing sheet 3/13.

Attachment: Replacement Sheet 3/13 including FIGS. 5 and 19